

AMENDMENT TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (currently amended) An erosion control system comprising:
a flexible erosion control matting including no powdered or granular material, and further including

a single core layer ~~formed of a fiber matrix in order that~~ comprising randomly oriented fibers, ~~and the fiber matrix core~~ forming a substantially flat upper surface and a substantially flat lower surface; ~~and~~

~~a permanent upper layer~~ an externally disposed biaxial geogrid fastened to and located on ~~bonded to~~ the substantially flat upper surface of the single core layer; and

an externally disposed grid-like netting material fastened to and located on the substantially flat lower surface of the single core layer;

the flexible erosion control matting structured to resist trapping of sediment within the matting and to allow flowing particulate matter to pass freely over the matting during a hydraulic event in order to control erosion of a substantially unvegetated sloped surface when the matting is placed on a ~~substantially unvegetated~~ said sloped surface.

Claim 2 (currently amended): The system of claim 1 wherein the ~~fiber matrix~~ single core layer comprises a compacted fiber matrix.

Claim 3 (previously presented): The system of claim 1 wherein the matting has a density of at least about 0.5 pounds to about 0.7

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pounds per square yard.

Claim 4 (previously presented): The system of claim 1 wherein the matting has a Mannings "N" value of roughness of less than about 0.044.

Claim 5 (previously presented): The system of claim 1 wherein the matting has a Mannings "N" value of roughness of about 0.026.

Claim 6 (currently amended): The system of claim 1 wherein the flexible erosion control matting is structured to ~~substantially~~ prevent substantial soil loss from the sloped, unvegetated surface when the surface is exposed to at liquid flow at a velocity of greater than about 9.5 feet per second and less than about 20 feet per second.

Claim 7 (original): The system of claim 1 wherein the flexible matting is structured to prevent substantial soil loss from the sloped, substantially unvegetated surface when the surface is exposed to a liquid flow having a duration greater than about 30 minutes to about 50 hours.

Claim 8 (cancelled)

Claim 9 (currently amended): The system of claim 1 wherein the ~~fiber matrix~~ single core layer comprises a material selected from the group consisting of coconut fibers, flax fibers, polypropylene fibers and combinations thereof.

Claims 10-11 (cancelled)

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Claim 12 (currently amended): The system of claim 11 wherein the biaxial geogrid is stitch bonded with the single core layer.

Claim 13-22 (canceled)

Claim 23 (currently amended): The system of claim 1 wherein the ~~fiber matrix~~ single core layer has a substantially continuous, uniform thickness defined between the substantially flat upper surface and the substantially flat lower surface.

Claim 24 (currently amended): The system of claim 1 wherein the flexible matting is further structured such that the upper layer remains bonded to the substantially flat upper surface of the single core layer.

Claim 25-26 (Canceled)

Claim 27 (new): The system of claim 1 wherein the flexible matting consists essentially of

the single core layer;

the biaxial geogrid, fastened to and located on the single core layer; and

the externally disposed grid-like netting material fastened to and located on the substantially flat lower surface of the single core layer.

Claim 28 (new) An erosion control system comprising:

a flexible erosion control matting including no powdered or granular water absorbent material, and further including

a single core layer comprising randomly oriented fibers selected from the group consisting of coconut fibers, wood fibers,

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plant straw, synthetic fibers and combinations thereof, the single core layer forming a substantially flat upper surface and a substantially flat lower surface;

a relatively heavy weight biaxial geogrid having no substantial three dimension features, the biaxial geogrid fastened to and conforming to the substantially flat upper surface of the single core layer; and

a relatively light weight grid-like netting material fastened to the substantially flat lower surface of the single core layer.

Claim 29 (new) The system of claim 28 wherein the flexible erosion control matting has a density of at least about 0.5 pounds per square yard.